

## STIC Biotechnology Systems Branch

### RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/599,313  
Source: JFWD  
Date Processed by STIC: 10/3/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06



IFWO

## RAW SEQUENCE LISTING

DATE: 10/03/2006

PATENT APPLICATION: US/10/599,313

TIME: 10:20:32

Input Set : A:\20010-06USA.ST25.txt

Output Set: N:\CRF4\10032006\J599313.raw

2 <110> APPLICANT: POSCO  
 3 POSTECH Foundation  
 4 CHA, Hyung Joon  
 5 HWANG, Dong Soo  
 7 <120> TITLE OF INVENTION: Mussel Bioadhesive  
 9 <130> FILE REFERENCE: 20010-06USA  
 11 <140> CURRENT APPLICATION NUMBER: US 10/599,313  
 C--> 12 <141> CURRENT FILING DATE: 2006-09-25  
 14 <150> PRIOR APPLICATION NUMBER: PCT/KR2005/000888  
 15 <151> PRIOR FILING DATE: 2005-03-25  
 17 <150> PRIOR APPLICATION NUMBER: US 60/556,805  
 18 <151> PRIOR FILING DATE: 2004-03-26  
 20 <160> NUMBER OF SEQ ID NOS: 35  
 22 <170> SOFTWARE: KopatentIn 1.71  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 30  
 26 <212> TYPE: DNA  
 27 <213> ORGANISM: Artificial Sequence  
 29 <220> FEATURE:  
 30 <223> OTHER INFORMATION: primer  
 33 <400> SEQUENCE: 1  
 34 ggcctgcagc agttctgaag aatacaaggg 30  
 37 <210> SEQ ID NO: 2  
 38 <211> LENGTH: 29  
 39 <212> TYPE: DNA  
 40 <213> ORGANISM: Artificial Sequence  
 42 <220> FEATURE:  
 43 <223> OTHER INFORMATION: primer  
 46 <400> SEQUENCE: 2  
 47 gtagatctat acgccggacc agtgaacag 29  
 50 <210> SEQ ID NO: 3  
 51 <211> LENGTH: 21  
 52 <212> TYPE: DNA  
 53 <213> ORGANISM: Artificial Sequence  
 55 <220> FEATURE:  
 56 <223> OTHER INFORMATION: primer  
 59 <400> SEQUENCE: 3  
 60 cttgtatttt ccgctgtttt t 21  
 63 <210> SEQ ID NO: 4  
 64 <211> LENGTH: 21  
 65 <212> TYPE: DNA  
 66 <213> ORGANISM: Artificial Sequence  
 68 <220> FEATURE:

Page Not Comply  
 Corrected Diskette Needed  
 (pg. 3-5)

## RAW SEQUENCE LISTING

DATE: 10/03/2006

PATENT APPLICATION: US/10/599,313

TIME: 10:20:32

Input Set : A:\20010-06USA.ST25.txt

Output Set: N:\CRF4\10032006\J599313.raw

```

69 <223> OTHER INFORMATION: primer
72 <400> SEQUENCE: 4
73 aaaaacagcg gaaaatacaa g 21
76 <210> SEQ ID NO: 5
77 <211> LENGTH: 228
78 <212> TYPE: DNA
79 <213> ORGANISM: Mytilus galloprovincialis
81 <220> FEATURE:
82 <221> NAME/KEY: CDS
83 <222> LOCATION: (1)..(228)
84 <223> OTHER INFORMATION: Mytilus galloprovincialis foot protein-5 cDNA
87 <400> SEQUENCE: 5
88 agt tct gaa gaa tac aaa ggt ggt tat tac cca ggc aat act tac cac 48
89 Ser Ser Glu Glu Tyr Lys Gly Gly Tyr Tyr Pro Gly Asn Thr Tyr His
90 1 5 10 15
92 tat cat tca ggt ggt agt tat cac gga tcc ggc tat cat gga gga tat 96
93 Tyr His Ser Gly Gly Ser Tyr His Gly Ser Gly Tyr His Gly Gly Tyr
94 20 25 30
96 aag gga aag tat tac gga aag gca aag aaa tac tat tat aaa tat aaa 144
97 Lys Gly Lys Tyr Tyr Gly Lys Ala Lys Lys Tyr Tyr Tyr Lys Tyr Lys
98 35 40 45
100 aac agc gga aaa tac aag tat ctg aag aaa gct aga aaa tac cat aga 192
101 Asn Ser Gly Lys Tyr Lys Tyr Leu Lys Lys Ala Arg Lys Tyr His Arg
102 50 55 60
104 aag ggt tac aag aag tat tat gga ggt ggt agc agt 228
105 Lys Gly Tyr Lys Lys Tyr Tyr Gly Gly Gly Ser Ser
106 65 70 75
109 <210> SEQ ID NO: 6
110 <211> LENGTH: 76
111 <212> TYPE: PRT
112 <213> ORGANISM: Mytilus galloprovincialis
114 <400> SEQUENCE: 6
115 Ser Ser Glu Glu Tyr Lys Gly Gly Tyr Tyr Pro Gly Asn Thr Tyr His
116 1 5 10 15
118 Tyr His Ser Gly Gly Ser Tyr His Gly Ser Gly Tyr His Gly Gly Tyr
119 20 25 30
121 Lys Gly Lys Tyr Tyr Gly Lys Ala Lys Lys Tyr Tyr Tyr Lys Tyr Lys
122 35 40 45
124 Asn Ser Gly Lys Tyr Lys Tyr Leu Lys Lys Ala Arg Lys Tyr His Arg
125 50 55 60
127 Lys Gly Tyr Lys Lys Tyr Tyr Gly Gly Gly Ser Ser
128 65 70 75
131 <210> SEQ ID NO: 7
132 <211> LENGTH: 180
133 <212> TYPE: DNA
134 <213> ORGANISM: mytilus edulis
136 <220> FEATURE:
137 <221> NAME/KEY: CDS
138 <222> LOCATION: (1)..(180)

```

## RAW SEQUENCE LISTING

DATE: 10/03/2006

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Input Set : A:\20010-06USA.ST25.txt

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139 <223> OTHER INFORMATION: 6 times repeated sequence derived from mytilus edulis foot  
 140 protein-1

143 <400> SEQUENCE: 7

144 gct aaa ccg tct tac ccg ccg acc tac aaa gca aaa ccc tcg tac cca 48

145 Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro

146 1 5 10 15

148 ccg act tat aag gct aaa cct agc tat cca cct acg tac aaa gct aaa 96

149 Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys

150 20 25 30

152 ccg tct tac ccg ccg act tac aaa gca aaa ccg tcc tac cct ccg acc 144

153 Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr

154 35 40 45

156 tat aag gct aaa ccg agt tac ccc ccg act tac aaa 180

157 Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys

158 50 55 60

161 <210> SEQ ID NO: 8

162 <211> LENGTH: 60

163 <212> TYPE: PRT

164 <213> ORGANISM: mytilus edulis

166 <400> SEQUENCE: 8

167 Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro

168 1 5 10 15

170 Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys

171 20 25 30

173 Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr

174 35 40 45

176 Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys

177 50 55 60

180 <210> SEQ ID NO: 9

181 <211> LENGTH: 411

182 <212> TYPE: DNA

183 <213> ORGANISM: Artificial Sequence

185 <220> FEATURE:

186 <223> OTHER INFORMATION: Bioadhesive protein(mgfp-150) coding sequence

189 <220> FEATURE:

190 <221> NAME/KEY: CDS

191 <222> LOCATION: (1)..(411)

192 <223> OTHER INFORMATION: Bioadhesive protein(mgfp-150)

195 <400> SEQUENCE: 9

196 gct aaa ccg tct tac ccg ccg acc tac aaa gca aaa ccc tcg tac cca

197 Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro

198 1 5 10 15

200 ccg act tat aag gct aaa cct agc tat cca cct acg tac aaa gct aaa

201 Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys

202 20 25 30

204 ccg tct tac ccg ccg act tac aaa gca aaa ccg tcc tac cct ccg acc 144

205 Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr

206 35 40 45

208 tat aag gct aaa ccg agt tac ccc ccg act tac aaa agt tct gaa gaa 192

## RAW SEQUENCE LISTING

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TIME: 10:20:32

Input Set : A:\20010-06USA.ST25.txt

Output Set: N:\CRF4\10032006\J599313.raw

209 Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ser Ser Glu Glu  
 210 50 55 60  
 212 tac aag ggt ggt tat tac cca ggc aat tcg aac cac tat cat tca ggt 240  
 213 Tyr Lys Gly Gly Tyr Tyr Pro Gly Asn Ser Asn His Tyr His Ser Gly  
 214 65 70 75 80  
 216 ggt agt tat cac gga tcc ggc tac cat gga gga tat aag gga aag tat 288  
 217 Gly Ser Tyr His Gly Ser Gly Tyr His Gly Gly Tyr Lys Gly Lys Tyr  
 218 85 90 95  
 220 tac gga aag gca aag aaa tac tat tat aaa tat aaa aac agc gga aaa 336  
 221 Tyr Gly Lys Ala Lys Lys Tyr Tyr Tyr Lys Tyr Lys Asn Ser Gly Lys  
 222 100 105 110  
 224 tac aag tat cta aag aaa gct aga aaa tac cat aga aag ggt tac aag 384  
 225 Tyr Lys Tyr Leu Lys Lys Ala Arg Lys Tyr His Arg Lys Gly Tyr Lys  
 226 115 120 125  
 228 aag tat tat gga ggt agc agt gaa ttc 411  
 229 Lys Tyr Tyr Gly Gly Ser Ser Glu Phe  
 230 130 135

233 &lt;210&gt; SEQ ID NO: 10

234 &lt;211&gt; LENGTH: 137

235 &lt;212&gt; TYPE: PRT

236 &lt;213&gt; ORGANISM: Artificial Sequence

W--&gt; 238 &lt;220&gt; FEATURE:

W--&gt; 238 &lt;223&gt; OTHER INFORMATION:

W--&gt; 238 &lt;400&gt; 10

239 Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro  
 240 1 5 10 15  
 242 Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys  
 243 20 25 30  
 245 Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr  
 246 35 40 45  
 248 Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ser Ser Glu Glu  
 249 50 55 60  
 251 Tyr Lys Gly Gly Tyr Tyr Pro Gly Asn Ser Asn His Tyr His Ser Gly  
 252 65 70 75 80  
 254 Gly Ser Tyr His Gly Ser Gly Tyr His Gly Gly Tyr Lys Gly Lys Tyr  
 255 85 90 95  
 257 Tyr Gly Lys Ala Lys Lys Tyr Tyr Tyr Lys Tyr Lys Asn Ser Gly Lys  
 258 100 105 110  
 260 Tyr Lys Tyr Leu Lys Lys Ala Arg Lys Tyr His Arg Lys Gly Tyr Lys  
 261 115 120 125  
 263 Lys Tyr Tyr Gly Gly Ser Ser Glu Phe  
 264 130 135

267 &lt;210&gt; SEQ ID NO: 11

268 &lt;211&gt; LENGTH: 411

269 &lt;212&gt; TYPE: DNA

270 &lt;213&gt; ORGANISM: Artificial Sequence

272 &lt;220&gt; FEATURE:

273 &lt;223&gt; OTHER INFORMATION: Bioadhesive protein(mgfp-051) coding sequence

276 &lt;220&gt; FEATURE:

PLS explain source  
of genetic  
material.

PLS insert

← mandatory

IF <213>  
response is

Artificial  
or unknown

PLS explain  
in section

<2207-2223>

What is the source of  
genetic material?

Invalid  
response

See error  
explanation on page  
6. 10/3/2006

## RAW SEQUENCE LISTING

DATE: 10/03/2006

PATENT APPLICATION: US/10/599,313

TIME: 10:20:32

Input Set : A:\20010-06USA.ST25.txt

Output Set: N:\CRF4\10032006\J599313.raw

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277 <221> NAME/KEY: CDS
278 <222> LOCATION: (1)..(411)
279 <223> OTHER INFORMATION: Bioadhesive protein(mgfp-051)
282 <400> SEQUENCE: 11
283 agt tct gaa gaa tac aag ggt ggt tat tac cca ggc aat tcg aac cac      48
284 Ser Ser Glu Glu Tyr Lys Gly Gly Tyr Tyr Pro Gly Asn Ser Asn His
285   1           5           10           15
287 tat cat tca ggt ggt agt tat cac gga tcc ggc tac cat gga gga tat      96
288 Tyr His Ser Gly Gly Ser Tyr His Gly Ser Gly Tyr His Gly Gly Tyr
289           20           25           30
291 aag gga aag tat tac gga aag gca aag aaa tac tat tat aaa tat aaa      144
292 Lys Gly Lys Tyr Tyr Gly Lys Ala Lys Lys Tyr Tyr Tyr Lys Tyr Lys
293           35           40           45
295 aac agc gga aaa tac aag tat cta aag aaa gct aga aaa tac cat aga      192
296 Asn Ser Gly Lys Tyr Lys Tyr Leu Lys Lys Ala Arg Lys Tyr His Arg
297           50           55           60
299 aag ggt tac aag aag tat tat gga ggt agc agt gaa ttc gct aaa ccg      240
300 Lys Gly Tyr Lys Lys Tyr Tyr Gly Gly Ser Ser Glu Phe Ala Lys Pro
301           65           70           75           80
303 tct tac ccg ccg acc tac aaa gca aaa ccc tcg tac cca ccg act tat      288
304 Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr
305           85           90           95
307 aag gct aaa cct agc tat cca cct acg tac aaa gct aaa ccg tct tac      336
308 Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr
309           100          105          110
311 ccg ccg act tac aaa gca aaa ccg tcc tac cct ccg acc tat aag gct      384
312 Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr Lys Ala
313           115          120          125
315 aaa ccg agt tac ccc ccg act tac aaa      411
316 Lys Pro Ser Tyr Pro Pro Thr Tyr Lys
317           130          135
320 <210> SEQ ID NO: 12
321 <211> LENGTH: 137
322 <212> TYPE: PRT
323 <213> ORGANISM: Artificial Sequence
W--> 325 <220> FEATURE:
W--> 325 <223> OTHER INFORMATION:
W--> 325 <400> 12
326 Ser Ser Glu Glu Tyr Lys Gly Gly Tyr Tyr Pro Gly Asn Ser Asn His
327   1           5           10           15
329 Tyr His Ser Gly Gly Ser Tyr His Gly Ser Gly Tyr His Gly Gly Tyr
330           20           25           30
332 Lys Gly Lys Tyr Tyr Gly Lys Ala Lys Lys Tyr Tyr Tyr Lys Tyr Lys
333           35           40           45
335 Asn Ser Gly Lys Tyr Lys Tyr Leu Lys Lys Ala Arg Lys Tyr His Arg
336           50           55           60
338 Lys Gly Tyr Lys Lys Tyr Tyr Gly Gly Ser Ser Glu Phe Ala Lys Pro
339           65           70           75           80
341 Ser Tyr Pro Pro Thr Tyr Lys Ala Lys Pro Ser Tyr Pro Pro Thr Tyr

```

PLS explain source of genetic material.

See Enron

Explanation on page 6.

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/599,313

DATE: 10/03/2006  
TIME: 10:20:33

Input Set : A:\20010-06USA.ST25.txt

Output Set: N:\CRF4\10032006\J599313.raw

Use of <220> Feature (NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) (Sec.1.823 of new Rules)

Seq#: 10, 12, 14, 16, 18, 20, 22

## VERIFICATION SUMMARY

DATE: 10/03/2006

PATENT APPLICATION: US/10/599,313

TIME: 10:20:33

Input Set : A:\20010-06USA.ST25.txt

Output Set: N:\CRF4\10032006\J599313.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:238 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:10, <213>  
ORGANISM:Artificial Sequence  
L:238 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:10, <213>  
ORGANISM:Artificial Sequence  
L:238 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:10,Line#:238  
L:325 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:12, <213>  
ORGANISM:Artificial Sequence  
L:325 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:12, <213>  
ORGANISM:Artificial Sequence  
L:325 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:12,Line#:325  
L:428 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:14, <213>  
ORGANISM:Artificial Sequence  
L:428 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:14, <213>  
ORGANISM:Artificial Sequence  
L:428 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:14,Line#:428  
L:524 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:16, <213>  
ORGANISM:Artificial Sequence  
L:524 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:16, <213>  
ORGANISM:Artificial Sequence  
L:524 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:16,Line#:524  
L:613 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:18, <213>  
ORGANISM:Artificial Sequence  
L:613 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:18, <213>  
ORGANISM:Artificial Sequence  
L:613 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:18,Line#:613  
L:715 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:20, <213>  
ORGANISM:Artificial Sequence  
L:715 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:20, <213>  
ORGANISM:Artificial Sequence  
L:715 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:20,Line#:715  
L:832 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:22, <213>  
ORGANISM:Artificial Sequence  
L:832 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:22, <213>  
ORGANISM:Artificial Sequence  
L:832 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:22,Line#:832